

<110> Paul DeAngelis
 <120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
 <130> 5820.601
 <140> Not Yet Assigned
 <141> Herewith
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 <170> WordPerfect 8.0 (saved in ASCII format)
 <210> 1
 <211> 2941 base pairs
 <212> DNA
 <213> Pasteurella Multocida
 <220>
 <400> pmCS DNS Sequence

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121    aaattatttg agaagtctgc tgaaacctac gggcgaaaaa tcgttgaatt ccaaattatc
181    aatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt
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301    ctatccgaat cagaaaaaaa cagtttaaaa aataaatgga aatctatcac tgggaaaaaa
361    tcggagaacg cagaaatcag aaaggtggaa ctagtacca aagattttcc taaagatctt
421    gttcttgctc cattgccaga tcatgttaat gattttacct ggtacaaaaa tcgaaaaaaa
481    agcttaggta taaagcctgt aaataagaat atcggctctt ctattattat tcctacattt
541    aatcgtagcc gtatttttaga tataacgtta gcctgtttgg tcaatcagaa aacaaactac
601    ccatttgaag tcgttggtgc agatgatggg agtaaggaaa acttacttac cattgtgcaa
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1021   accgataatc tacgtctatg tgattctccg tttcgttatt ttgttgcggg taatgttgca
1081   ttttctaaag aatggctaaa taaagtaggt tgggttcgat aagaatttaa tcattggggg
1141   ggcgaagatg tagaatttgg ttacagatta tttgccaaag gctgtttttt cagagtaatt
1201   gacggcggaa tggccatcca tcaagaacca cctggtaaag aaaatgaaac agaacgcgaa
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1321   cttttaccaa tagaagattc acatattcat agaatacctt tagtttctat ttatatcccc
1381   gcttataact gtgcaaatta tattcaaaga tgtgtagata gtgctcttaa tcaaactggt
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2161   aataaagatg ccaaaatcgc agtcagtatt ttctatccca atacattaaa cggcttagtg
2221   aaaaaactaa acaatattat tgaatataat aaaaatatat tcgttattat tctacatggt
2281   gataagaatc atcttacacc agacatcaaa aaagaaatat tggctttcta tcataagcac
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2581   gcgcatccac catttaaaaa gctgattaaa acctatttta atgacaatga cttaagaagt
  
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Sequence of the

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2941	aatagtataa	cgctataaaa	catttgcatt	ttattaaaa		

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121    vlaplpdhvn dftwyknrkk slgikpvnkn iglsiiptf nrsrilditl aclvnqktny
181    pfevvvaddg skenlltivq kyeqkldiky vrqkdygyql cavnrlglrt akydfvsild
241    cdmapqqllw hsyltelled ndivligprk yvdthnitae qflndpylie slpetatnnn
301    psitskgnis ldwrlehfkf tdnrlrlcdsp fryfvagnva fskewlnkvg wfdeefnhwg
361    gedvefgyrl fakgcffrvi dggmaihqep pgkenetere agksitlkiv kekvpyiyrk
421    llpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevcicnd gstdntlevi
481    nklygnnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541    ktlacvyttt rnvnpdgsli angynwpefs reklttamia hhfrmftira whltdgfne
601    ienavdydmf lklsevgkfk hlnkicynrv lhgdntsikk lgiqkknfhv vvnqslnrqg
661    inyyndkfd dldeyrkyif nktaeyqem dmlkdlkliq nkdakiavsi fypntlnglv
721    kklgniieyn knifviilhv dknhltpdik keilafyhkh qvnillnndi syttsnrlik
781    teahlsnink lsqnlncney iifdnhdslf vkndsyaymk kydvgnmfsa lthdwiekin
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121    aaattattttg agaagtctgc tgaaacctac gggcgaaaaa tcgttgaatt ccaaattatc
181    aaatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt
241    tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact
301    ctatccgaat cagaaaaaaa cagtttaaaa aataaatgga aatctatcac tgggaaaaaa
361    tcggagaacg cagaaatcag aaaggtggaa ctagtaccga aagattttcc taaagatctt
421    gttcttgctc cattgccaga tcatgttaat gattttacat ggtacaaaaa tcgaaaaaaa
481    agcttaggta taaagcctgt aaataagaat atcgggtctt ctattattat tcctacattt
541    aatcgtagcc gtattttaga tataacgtta gcctgtttgg tcaatcagaa aacaaactac
601    ccatttgaag tcgttggtgc agatgatggg agtaaggaaa acttacttac cattgtgcaa
661    aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
721    tgtgcagtcg gaaacttagg ttacgtaca gcaaagtatg attttgtctc gattctagac
781    tgcgatatgg caccacaaca attatgggtt cattcttctc ttacagaact attagaagac
841    aatgatattg ttttaattgg acctagaaaa tatgtggata ctcataatat taccgcagaa
901    caattcctta acgatccata tttaatagaa tcaactacct aaaccgctac aaataacaat
961    ccttcgatta catcaaaagg aaatatatcg ttggattgga gattagaaca tttcaaaaaa
1021   accgataatc tacgtctatg tgattctccg tttcgttatt ttagttgcgg taatgttgca
1081   ttttctaaag aatgggctaa taaagtaggt tgggttcgat aagaatttaa tcattggggg
1141   ggcgaagatg tagaatttgg ttacagatta tttgccaaag gctgtttttt cacagattat
1201   gacggcggaa tggcatacca tcaagaacca cctggtaaag aaaatgaaac agaccgcgaa
1261   gctggtaaaa gtattacgct taaaatttgg aaagaaaagg taccttacct ctatagaaag
1321   cttttaccaa tagaagattc acatattcat agaatacctt tagtttctat ttatatcccc
1381   gcttataact gtgcaaatat tattcaaaga tgtgtagata gtgctcttaa tcaaaactgtt
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1501   aataagcttt atggtaataa tcctagggtg cgcacatcat ctaaaccaaa tggcgggaata
1561   gcctcagcat caaatgcagc cgtttctttt gctaaaaggtt attacattgg gcagtttagat
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1861   attgaaaacg ccgtggatta tgacatgttc cttaaactca gtgaagtggg aaaattttaa
1921   catcttaata aaatctgcta taaccgcgta ttacatgggtg ataacacatc cattaagaaa
1981   ctcggcattc aaaagaaaaa ccattttgtt gtagtcaatc agtcattaaa tagacaaggc
2041   atcaattatt ataattatga caaatttgat gatttagatg aaagtagaaa gtatatcttc
2101   aataaaaaccg ctgaatatca agaagaaatg gatattttta aagatcttaa actcattcaa
2161   aataaagatg ccaaaatcgc agtcagtatt ttctatccca atacattaaa cggcttagtg
2221   aaaaaactaa acaatattat tgaatataat aaaaatatat tcgttattat tcacatggtt
2281   gataagaatc atcttacacc agacatcaaa aaagaaatat tggctttcta tcataagcac
2341   caagtgaata ttttactaaa taatgacatc tcatattaca cgagtaatag actaataaaa
2401   actgaggcac atttaagtaa tattaataaa ttaagtcatg taaatctaaa ttgtgaatac
2461   atcatttttg ataatcatga cagcctattc gttaaaaatg acagctatgc ttatatgaaa
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121    vlaplpdhvn dftwyknrkk slgikpvnkn iglsiiptf nrsrilditl aclvnqktny
181    pfevvvaddg skenlltivg kyeqkldiky vrqkdygyql cavnrlglrt akydfvsild
241    cdmapqqlwv hsytltdled ndivligprk yvdthnitae qflndpylie slpetatnnn
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361    gedvefgyrl fakgcffrvi dggmayhqep pgkenetdre agksitlkiv kekvpaiyrk
421    llpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevciend gstdntlevi
481    nklygnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541    ktlacvyttt rnvnpdgsli angynwpefs reklttamia hhfrmftira whltdgfne
601    ienavdydmf lklsevgkfk hlnkicynrv lhgdnstikk lgiqkknhf vvnqslnrqg
661    inyynydkfd dldesrkyif nktaeyqem dilkdlikliq nkakiavsi fypntlnglv
721    kklnniieyn knifviilhv dknhltpdik keilafykhk qvnillnndi syysnrlik
781    teahlsnink lsqnlncney iifdnhdslf vkndsyaymk kydvgnmfsl lthdweikin
841    ahppfklik tyfndndlrs mnvkgasqgm fmkyalphel ltiikevits cqsidsvpey
901    ntediwfqfa llilekktgh vfnktstlty mpwerklqwt neqigsakkg enipvnkfii
961    nsitl
  
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